2012/1119 14:00

FIG. 1

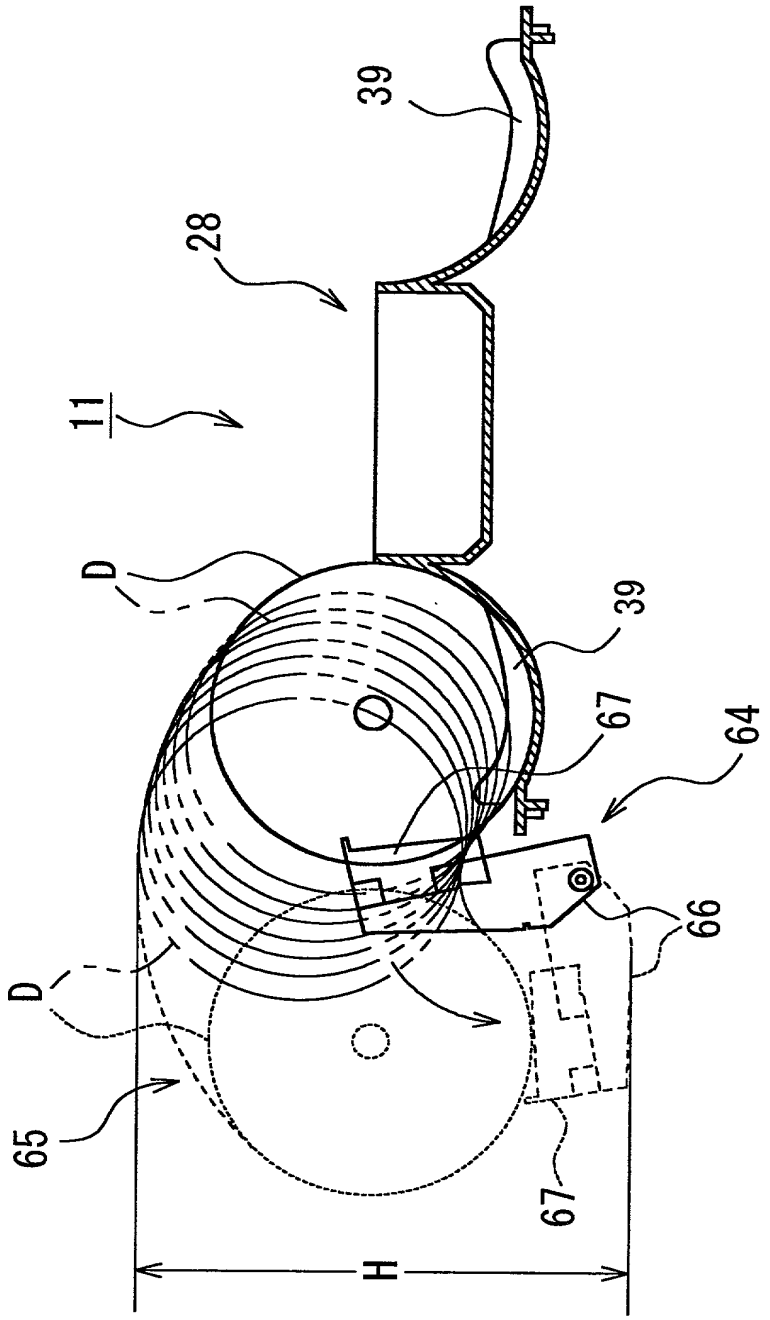


FIG. 2

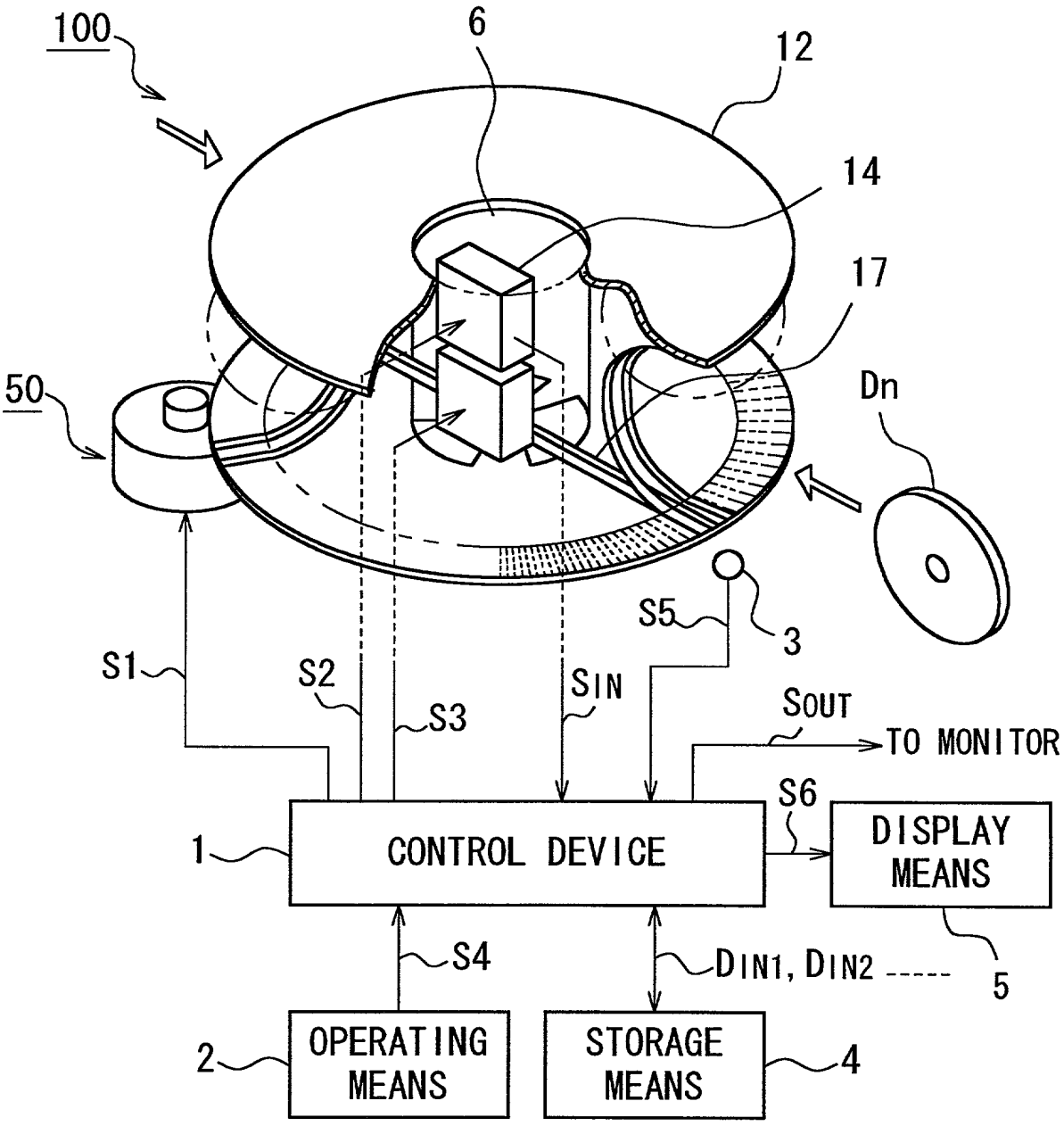

100
6
12
14
17
50
Dn
S1
S2
S3
SIN
S5
3
SOUT
TO MONITOR
S6
1
CONTROL DEVICE
DISPLAY MEANS
5
S4
DIN1, DIN2 -----
2
OPERATING MEANS
STORAGE MEANS
4

FIG. 3A

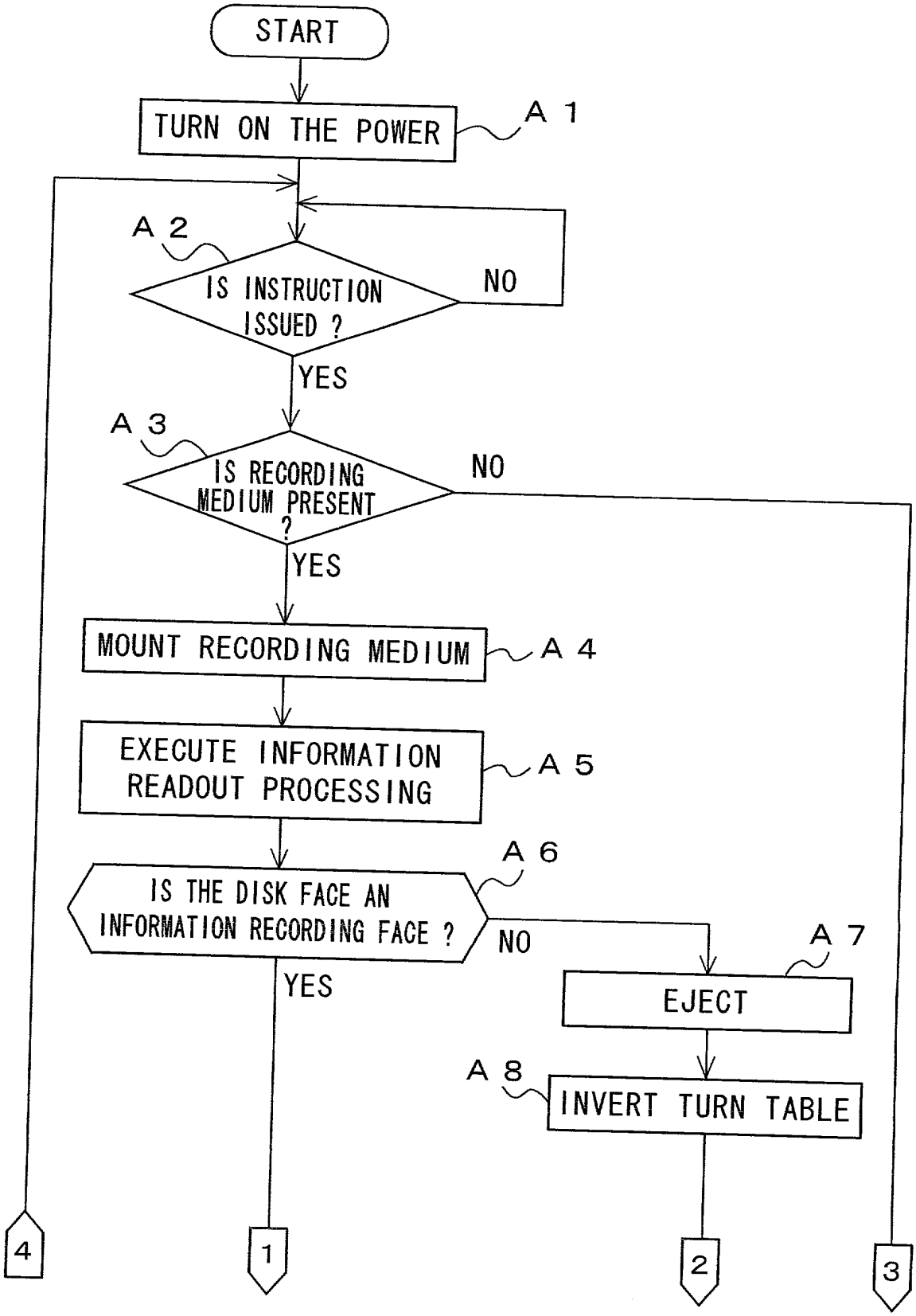

START
TURN ON THE POWER
A 1
A 2
IS INSTRUCTION ISSUED ?
NO
YES
A 3
IS RECORDING MEDIUM PRESENT ?
NO
YES
MOUNT RECORDING MEDIUM
A 4
EXECUTE INFORMATION READOUT PROCESSING
A 5
A 6
IS THE DISK FACE AN INFORMATION RECORDING FACE ?
NO
YES
A 7
EJECT
A 8
INVERT TURN TABLE
4
1
2
3

FIG. 3B

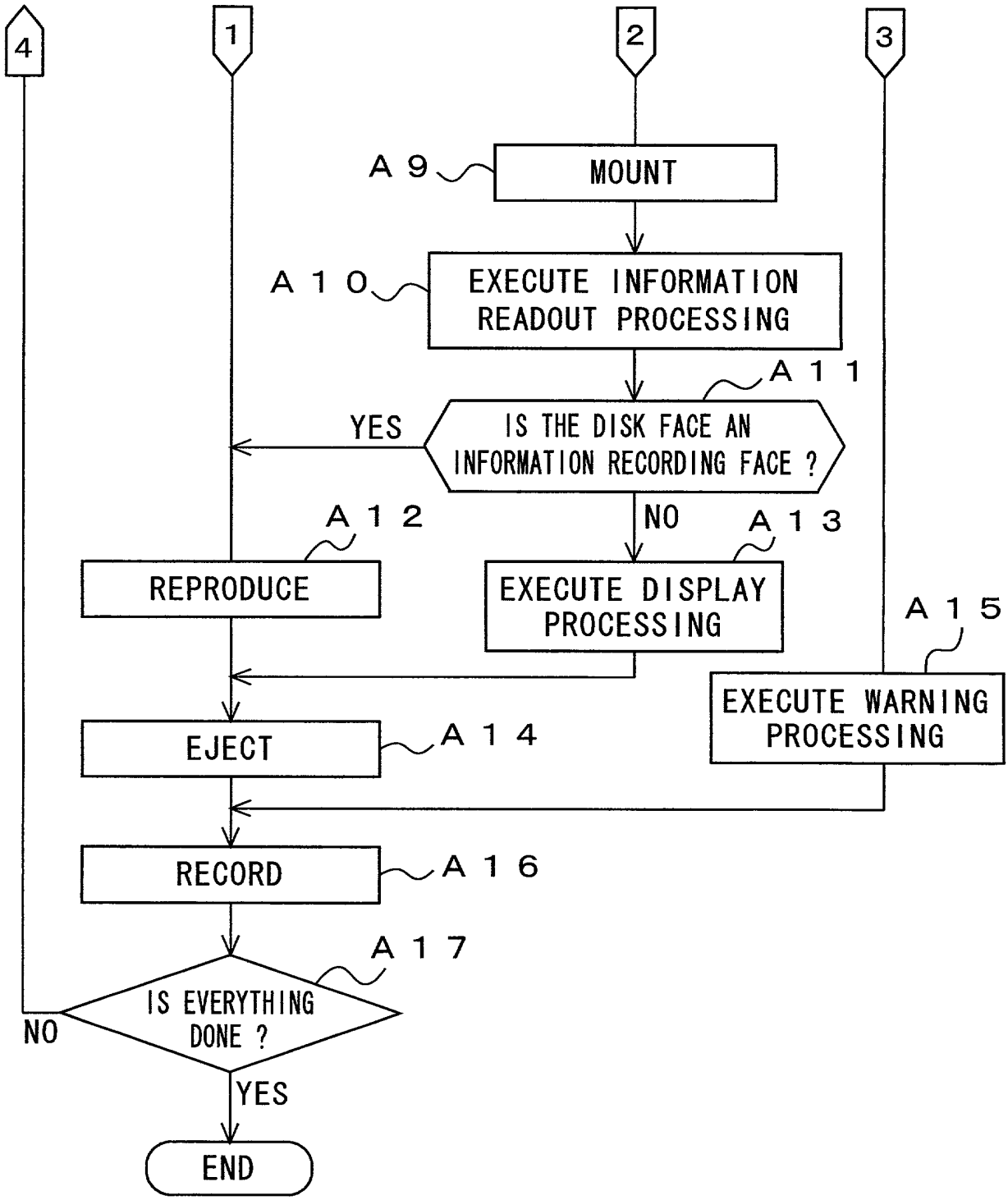

4
1
2
3
A 9
MOUNT
A 10
EXECUTE INFORMATION READOUT PROCESSING
A 11
YES
IS THE DISK FACE AN INFORMATION RECORDING FACE ?
NO
A 12
A 13
REPRODUCE
EXECUTE DISPLAY PROCESSING
A 15
EXECUTE WARNING PROCESSING
EJECT
A 14
RECORD
A 16
A 17
IS EVERYTHING DONE ?
NO
YES
END

FIG. 4

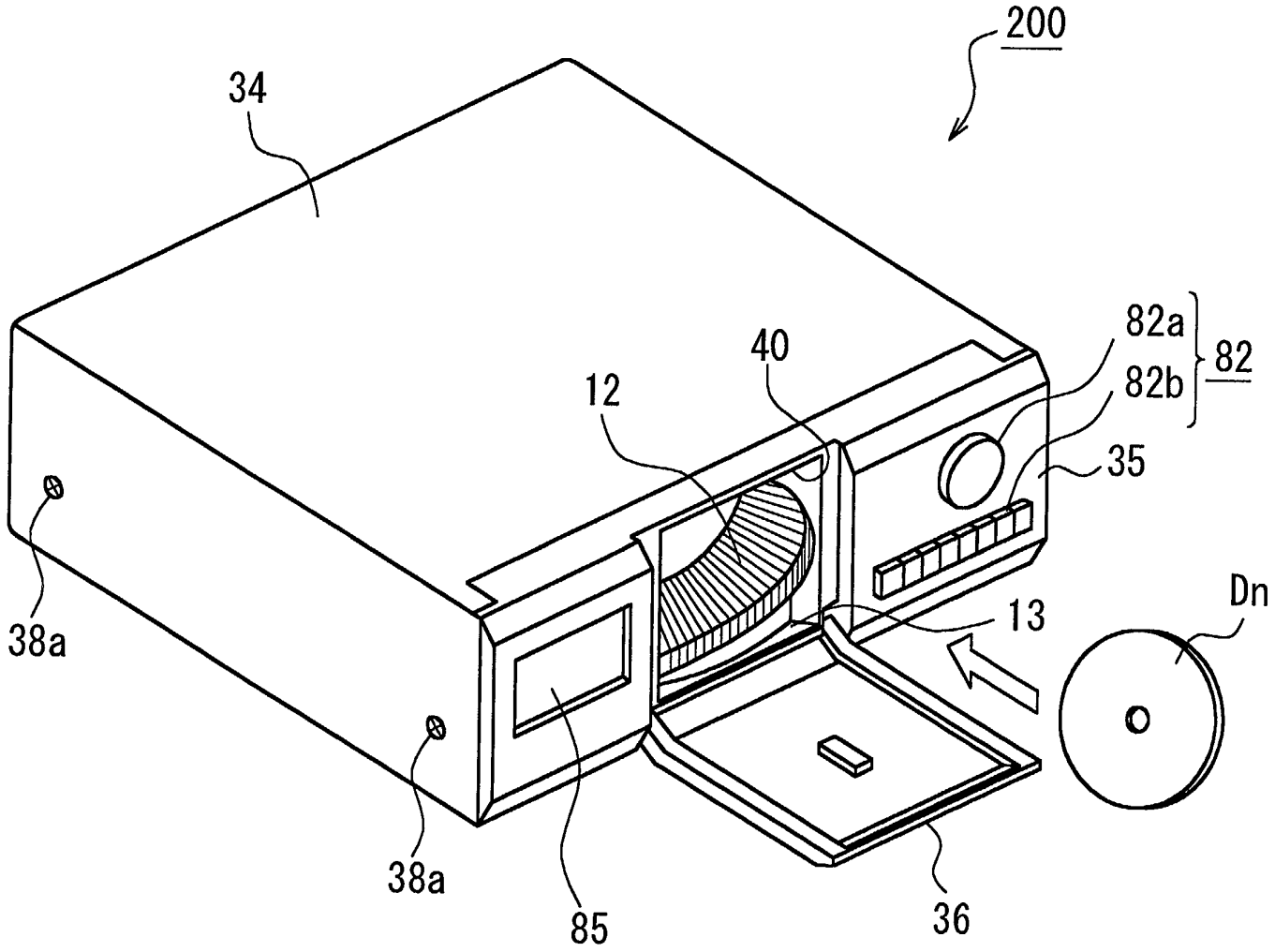
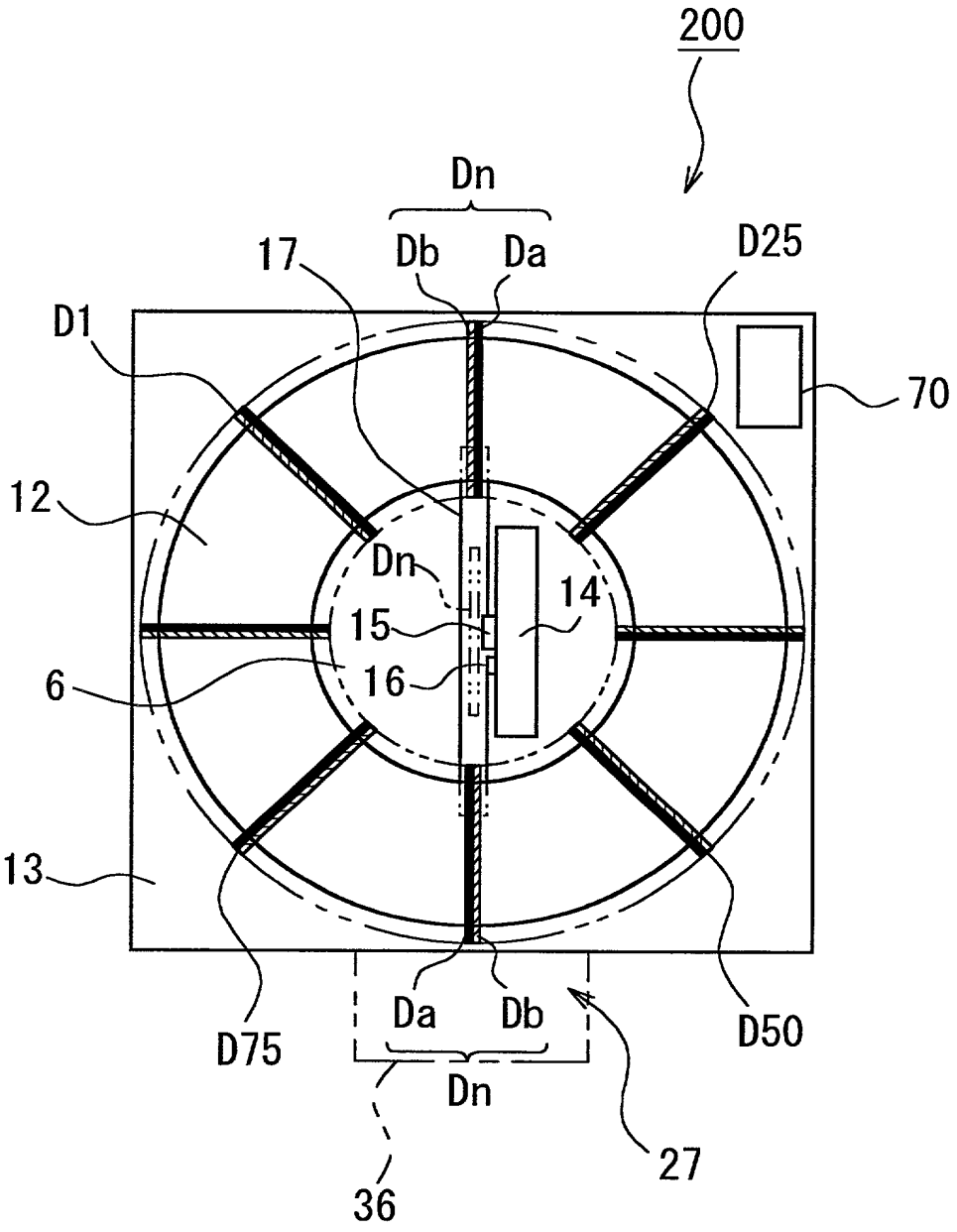


FIG. 5



Executed Translation

FIG. 6

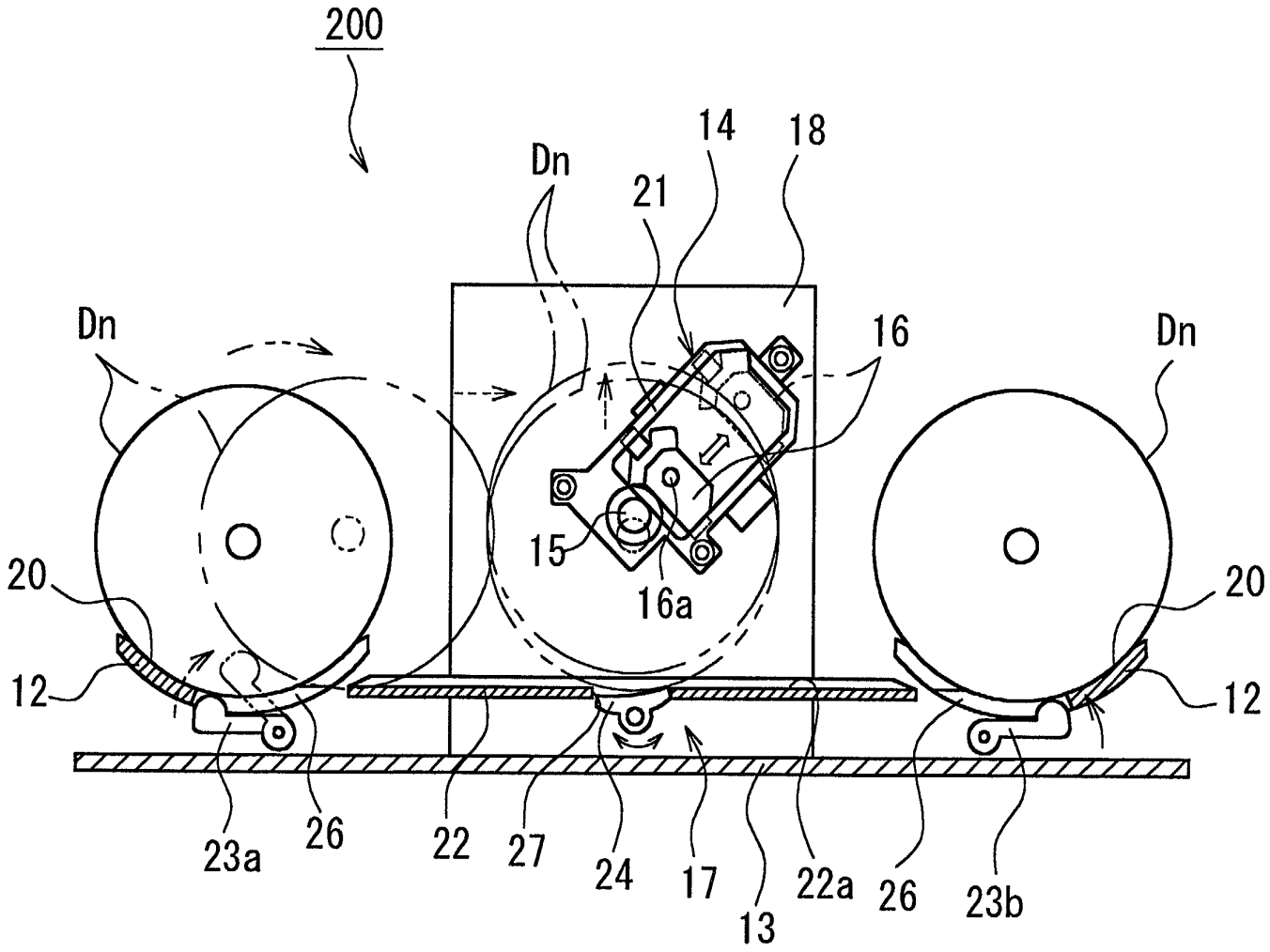
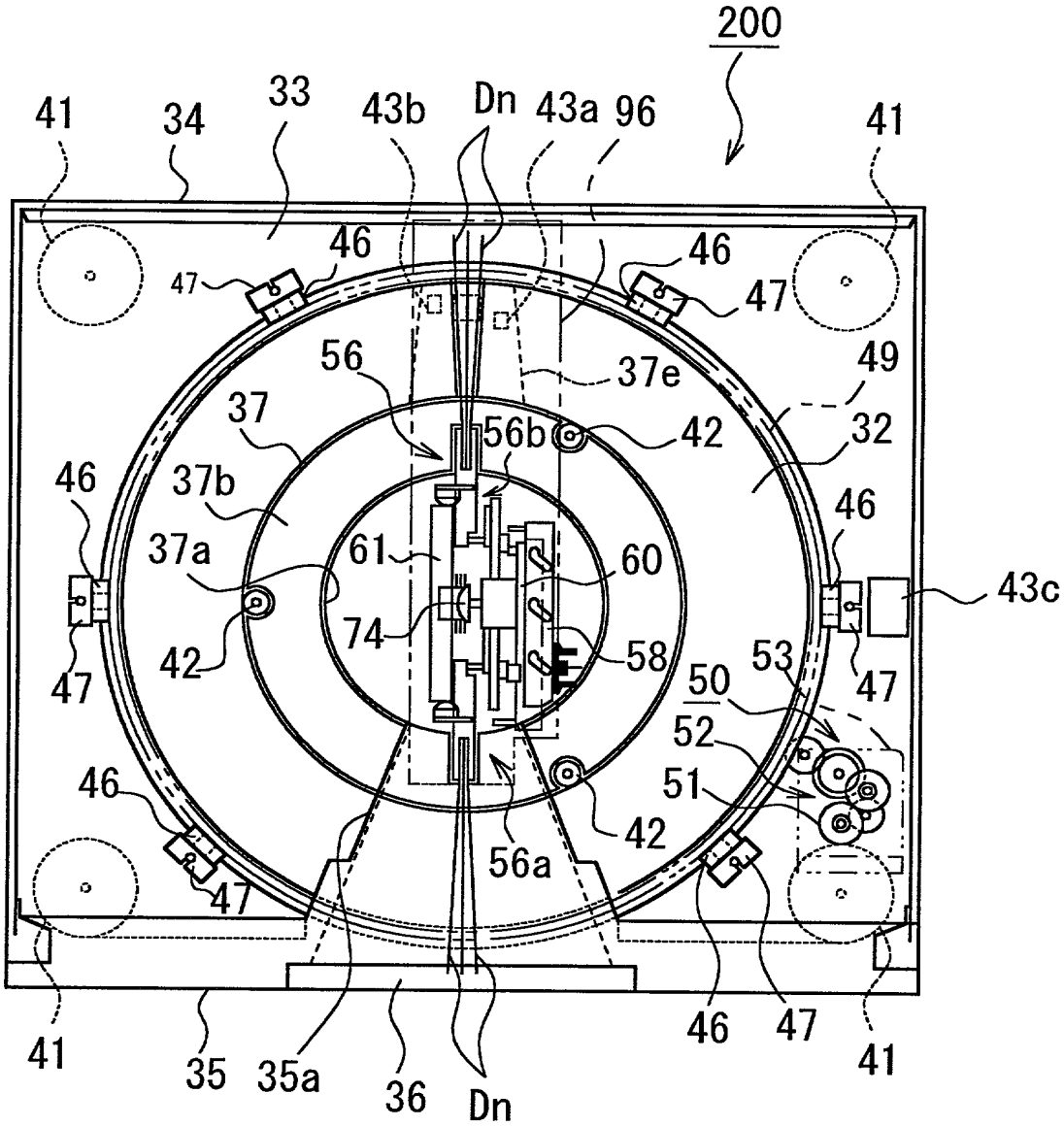


FIG. 7


200
41
34
33
43b
Dn
43a
96
41
46
47
46
47
56
37e
49
37
56b
42
32
46
37b
46
37a
61
60
43c
42
74
58
53
47
47
50
52
46
51
42
56a
47
46
47
41
35
35a
36
Dn
41
FORWARD

Machine Translation

FIG. 8

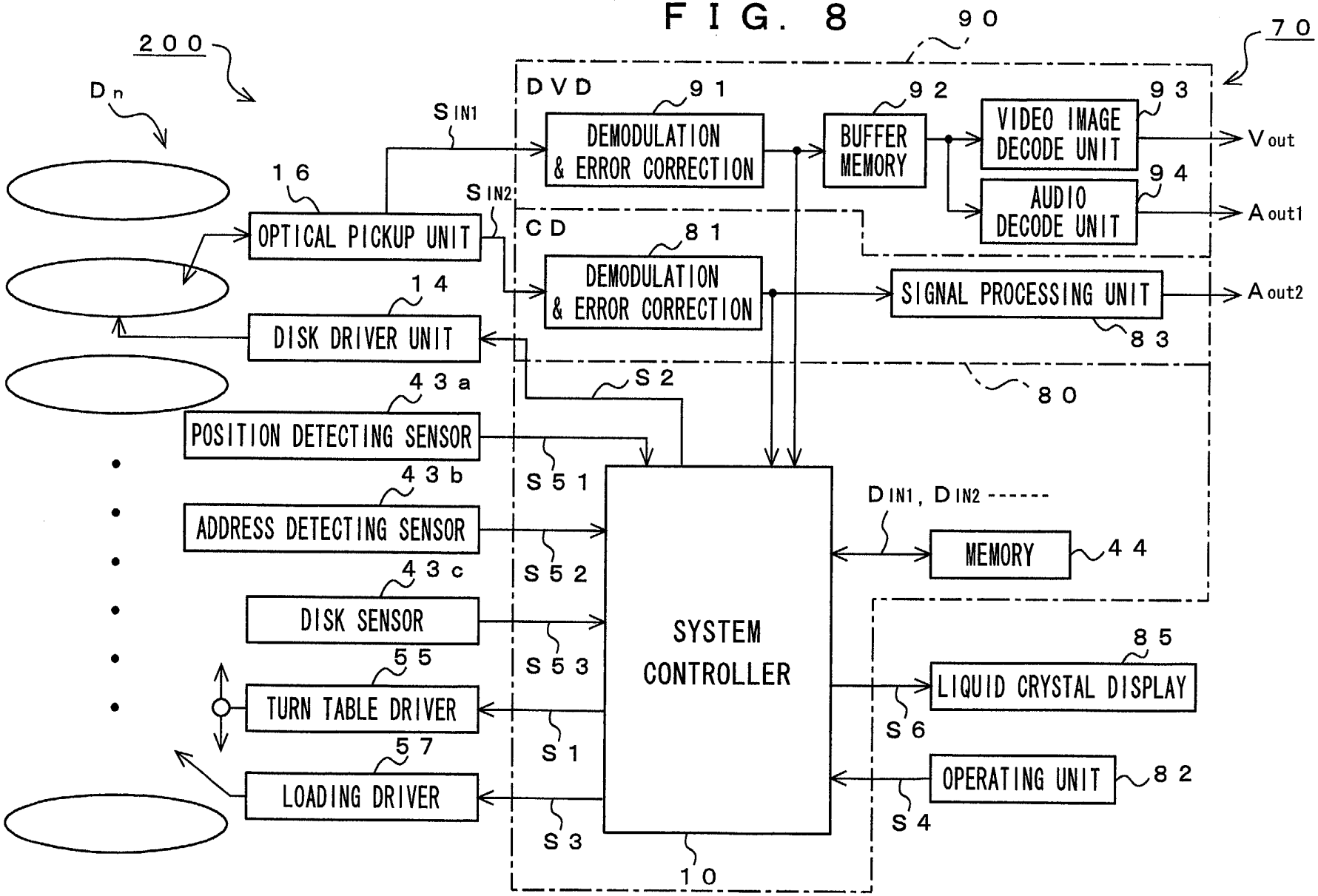


FIG. 9

SLOT NUMBER	DISK MOUNTING		
	TYPE	STATES OF SIDE-A AND SIDE B	
1	DVD	A	INFORMATION RECORDING FACE
		B	INFORMATION RECORDING FACE
2	CD	A	INFORMATION RECORDING FACE
		B	LABEL FACE
3	VCD	A	INFORMATION RECORDING FACE
		B	LABEL FACE
4	SVCD	A	INFORMATION RECORDING FACE
		B	LABEL FACE
5	SACD	A	INFORMATION RECORDING FACE
		B	LABEL FACE
6	VACANT	A	UNDEFINED
		B	UNDEFINED
300	CD	A	INFORMATION RECORDING FACE
		B	LABEL FACE

FIG. 10

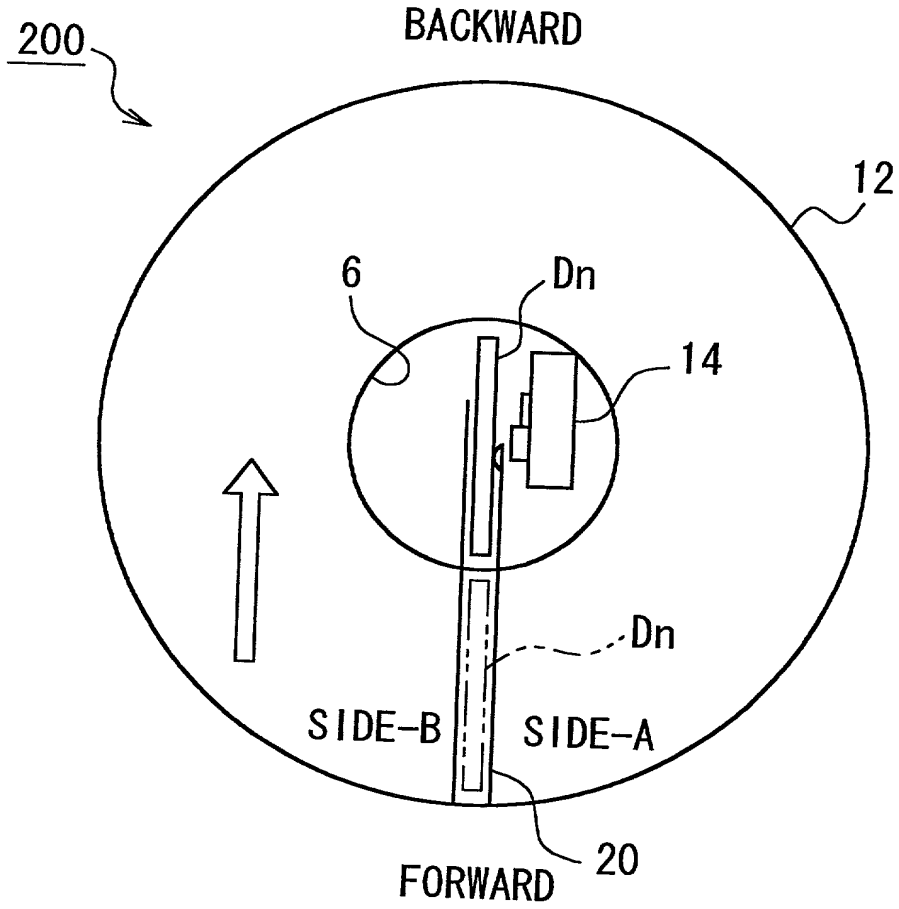


FIG. 11

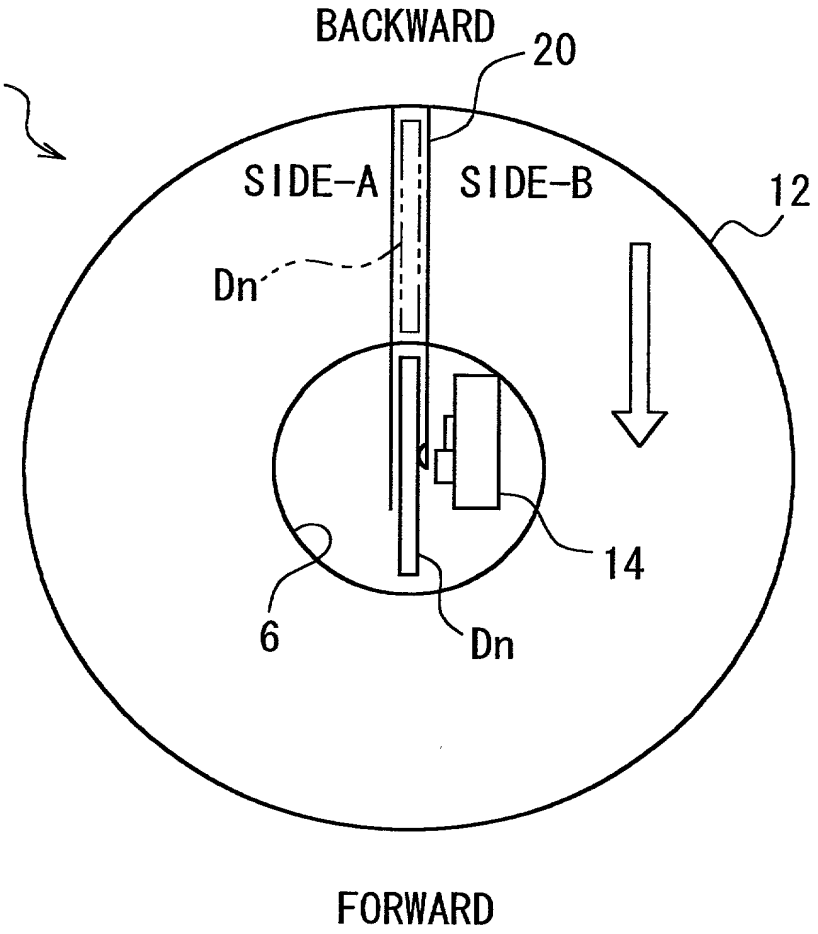


FIG. 12A

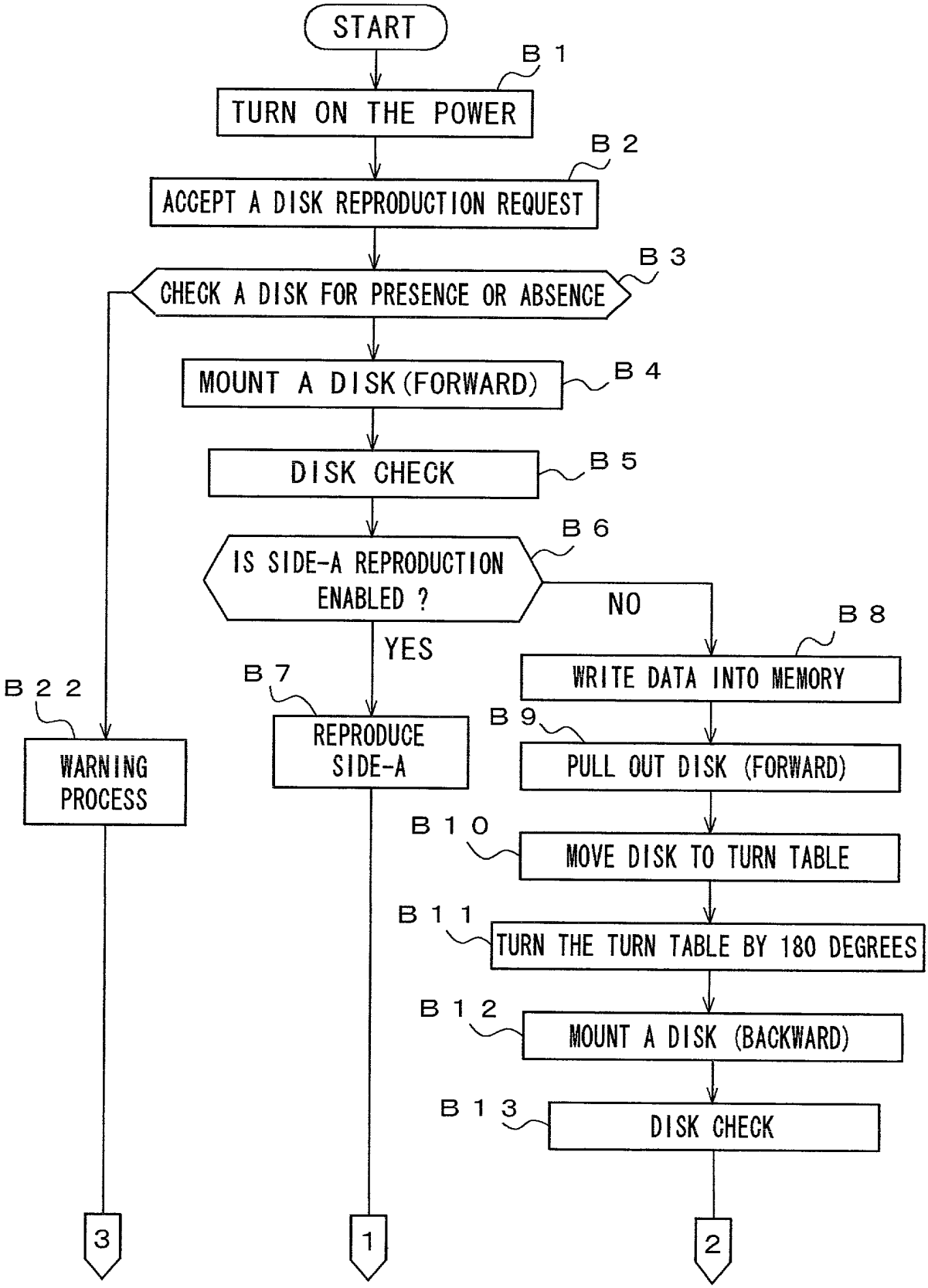

START
B 1
TURN ON THE POWER
B 2
ACCEPT A DISK REPRODUCTION REQUEST
B 3
CHECK A DISK FOR PRESENCE OR ABSENCE
B 4
MOUNT A DISK (FORWARD)
B 5
DISK CHECK
B 6
IS SIDE-A REPRODUCTION ENABLED ?
NO
YES
B 8
WRITE DATA INTO MEMORY
B 7
REPRODUCE SIDE-A
B 9
PULL OUT DISK (FORWARD)
B 22
WARNING PROCESS
B 10
MOVE DISK TO TURN TABLE
B 11
TURN THE TURN TABLE BY 180 DEGREES
B 12
MOUNT A DISK (BACKWARD)
B 13
DISK CHECK
3
1
2

FIG. 12B

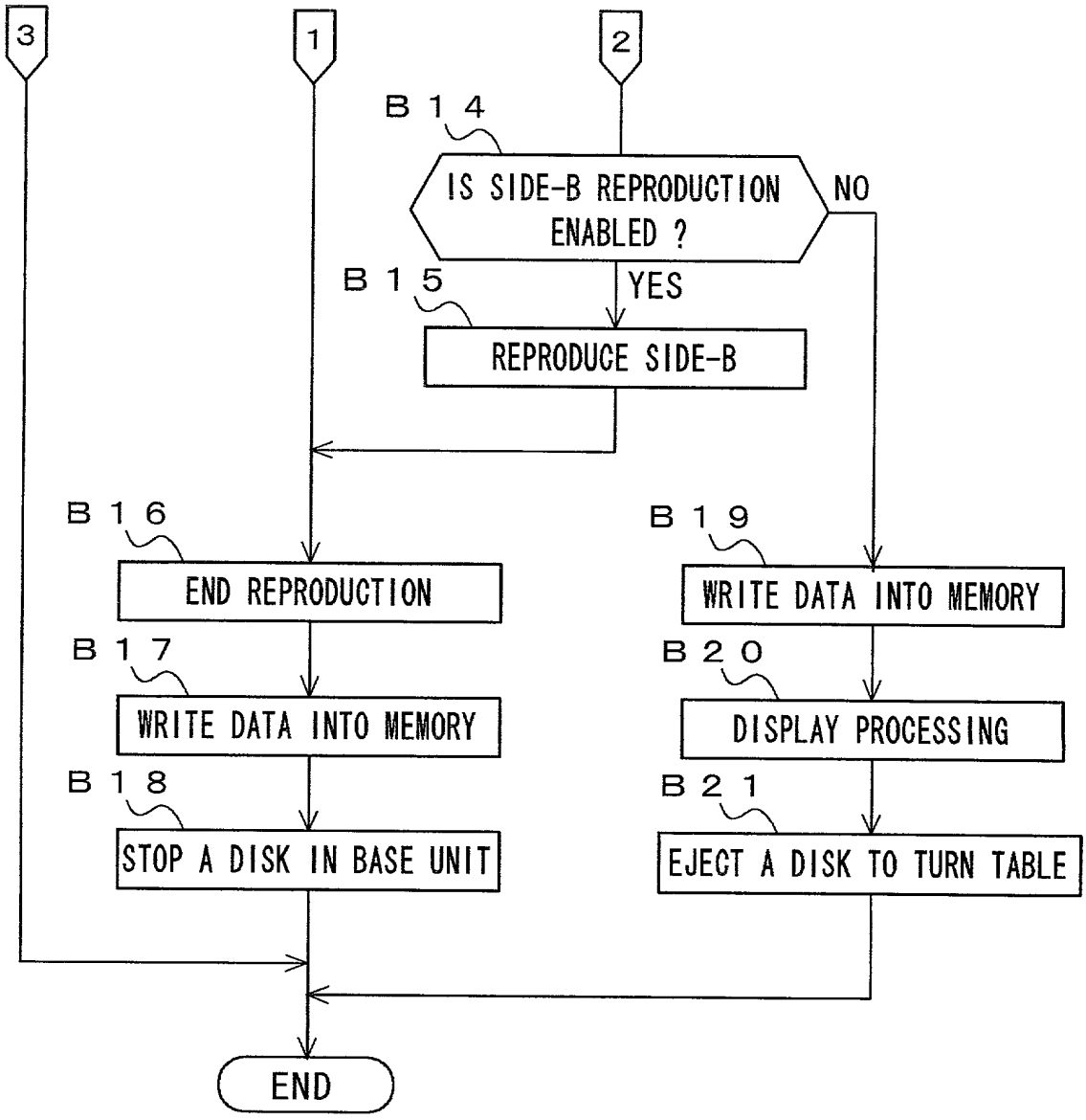

3
1
2
B14
IS SIDE-B REPRODUCTION ENABLED ?
NO
B15
YES
REPRODUCE SIDE-B
B16
END REPRODUCTION
B17
WRITE DATA INTO MEMORY
B18
STOP A DISK IN BASE UNIT
B19
WRITE DATA INTO MEMORY
B20
DISPLAY PROCESSING
B21
EJECT A DISK TO TURN TABLE
END

FIG. 13

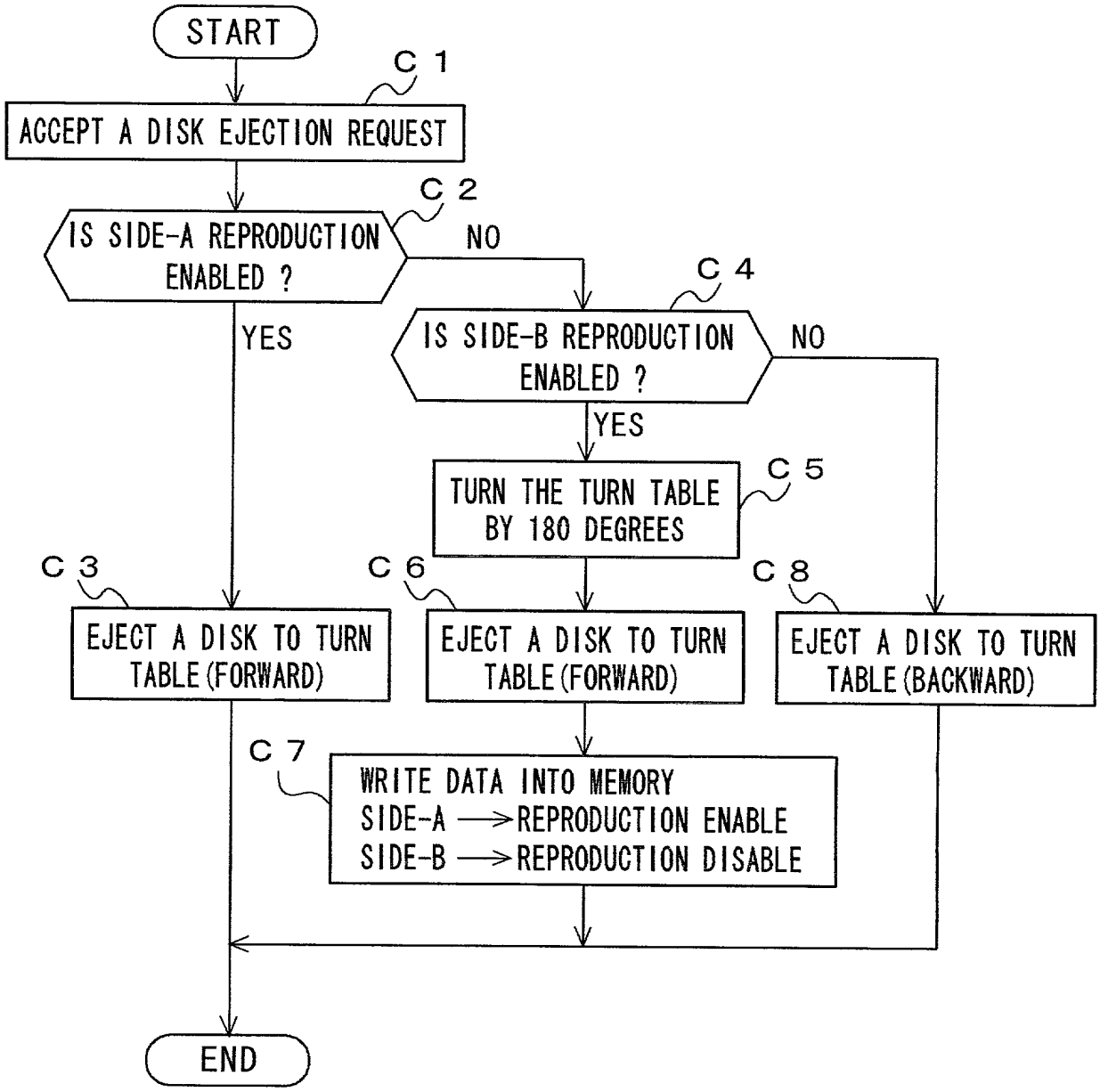

START
C 1
ACCEPT A DISK EJECTION REQUEST
C 2
IS SIDE-A REPRODUCTION ENABLED ?
NO
YES
C 4
IS SIDE-B REPRODUCTION ENABLED ?
NO
YES
C 5
TURN THE TURN TABLE BY 180 DEGREES
C 3
EJECT A DISK TO TURN TABLE (FORWARD)
C 6
EJECT A DISK TO TURN TABLE (FORWARD)
C 8
EJECT A DISK TO TURN TABLE (BACKWARD)
C 7
WRITE DATA INTO MEMORY
SIDE-A ⟶ REPRODUCTION ENABLE
SIDE-B ⟶ REPRODUCTION DISABLE
END

FIG. 14

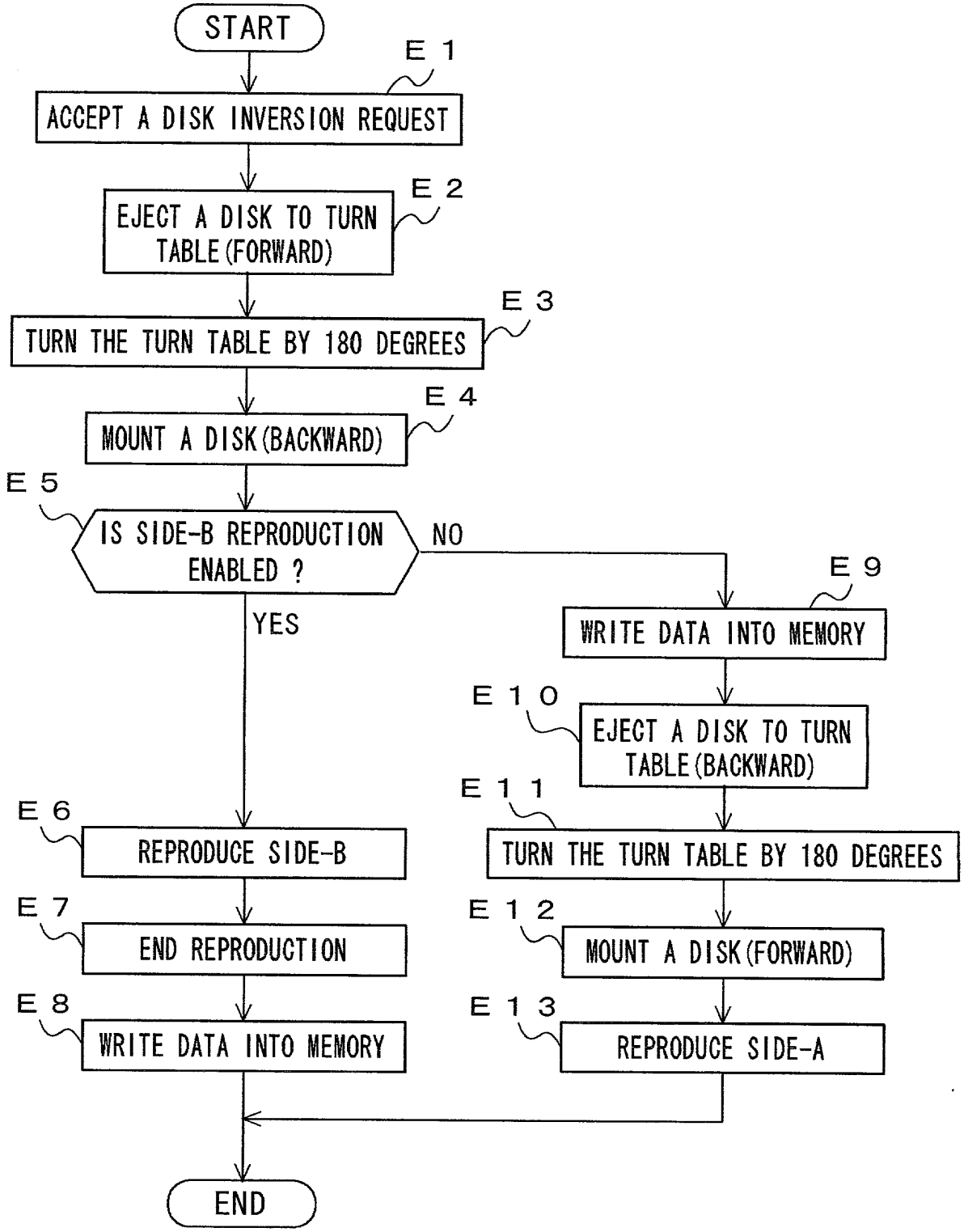

START
E 1
ACCEPT A DISK INVERSION REQUEST
E 2
EJECT A DISK TO TURN TABLE (FORWARD)
E 3
TURN THE TURN TABLE BY 180 DEGREES
E 4
MOUNT A DISK (BACKWARD)
E 5
IS SIDE-B REPRODUCTION ENABLED ?
NO
YES
E 9
WRITE DATA INTO MEMORY
E 10
EJECT A DISK TO TURN TABLE (BACKWARD)
E 11
TURN THE TURN TABLE BY 180 DEGREES
E 12
MOUNT A DISK (FORWARD)
E 13
REPRODUCE SIDE-A
E 6
REPRODUCE SIDE-B
E 7
END REPRODUCTION
E 8
WRITE DATA INTO MEMORY
END

FIG. 15A

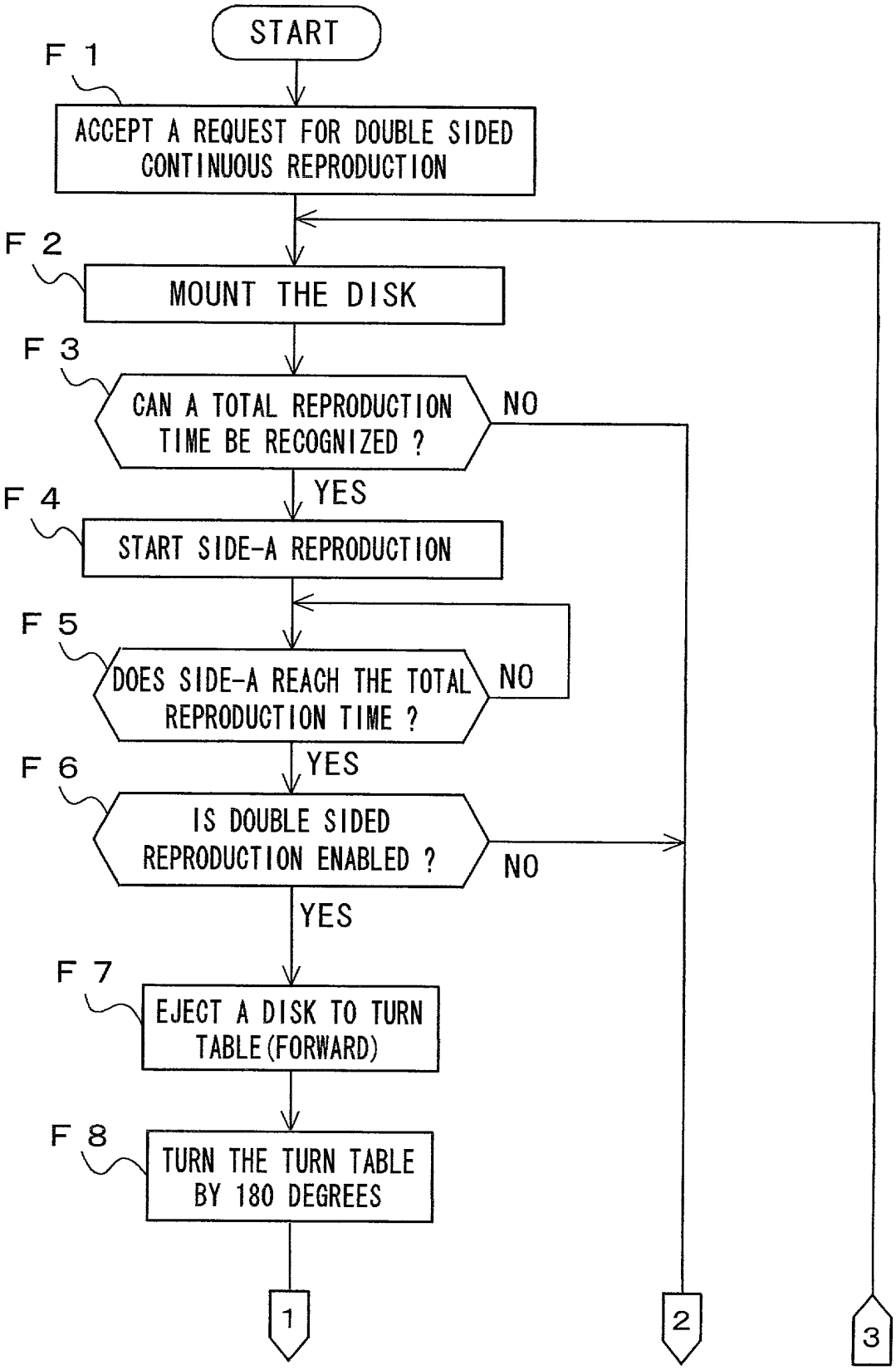
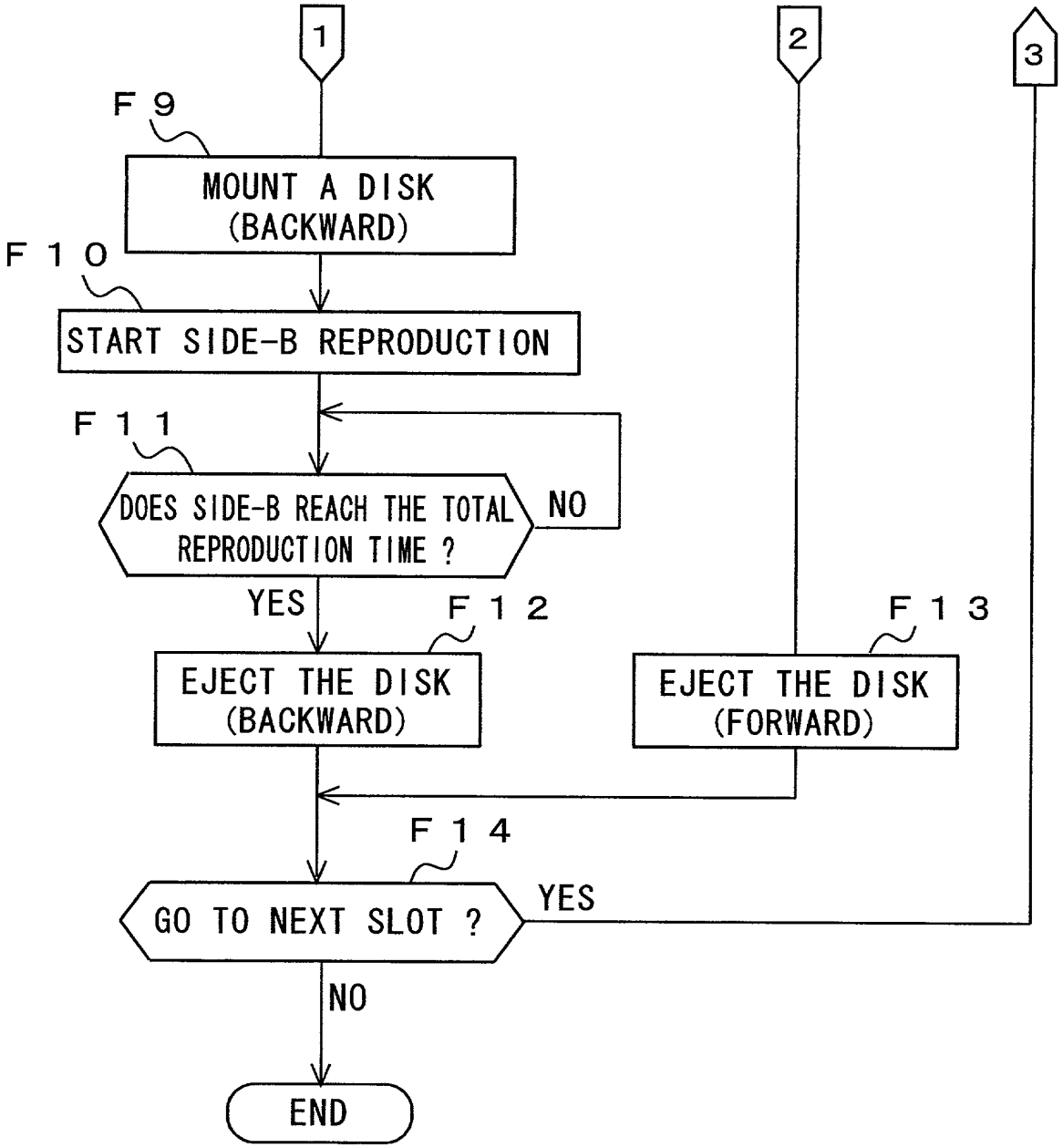

START
F 1
ACCEPT A REQUEST FOR DOUBLE SIDED CONTINUOUS REPRODUCTION
F 2
MOUNT THE DISK
F 3
CAN A TOTAL REPRODUCTION TIME BE RECOGNIZED ?
NO
YES
F 4
START SIDE-A REPRODUCTION
F 5
DOES SIDE-A REACH THE TOTAL REPRODUCTION TIME ?
NO
YES
F 6
IS DOUBLE SIDED REPRODUCTION ENABLED ?
NO
YES
F 7
EJECT A DISK TO TURN TABLE (FORWARD)
F 8
TURN THE TURN TABLE BY 180 DEGREES
1
2
3

FIG. 15B


1
2
3
F 9
MOUNT A DISK (BACKWARD)
F 10
START SIDE-B REPRODUCTION
F 11
DOES SIDE-B REACH THE TOTAL REPRODUCTION TIME ?
NO
YES
F 12
EJECT THE DISK (BACKWARD)
F 13
EJECT THE DISK (FORWARD)
F 14
GO TO NEXT SLOT ?
YES
NO
END

Posted Document

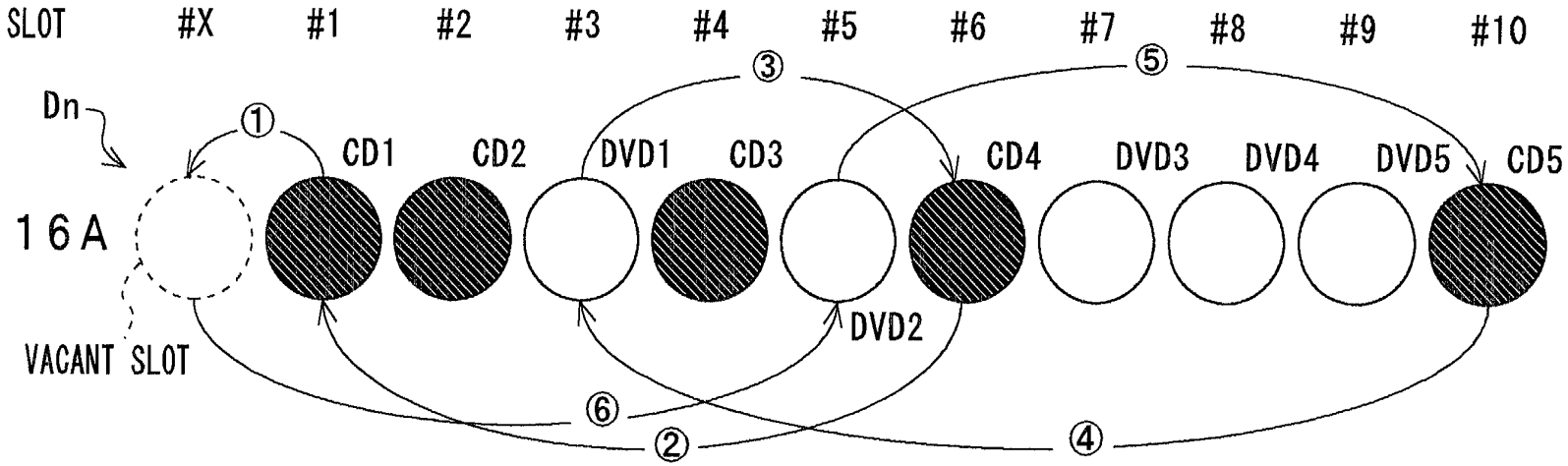


FIG. 16A

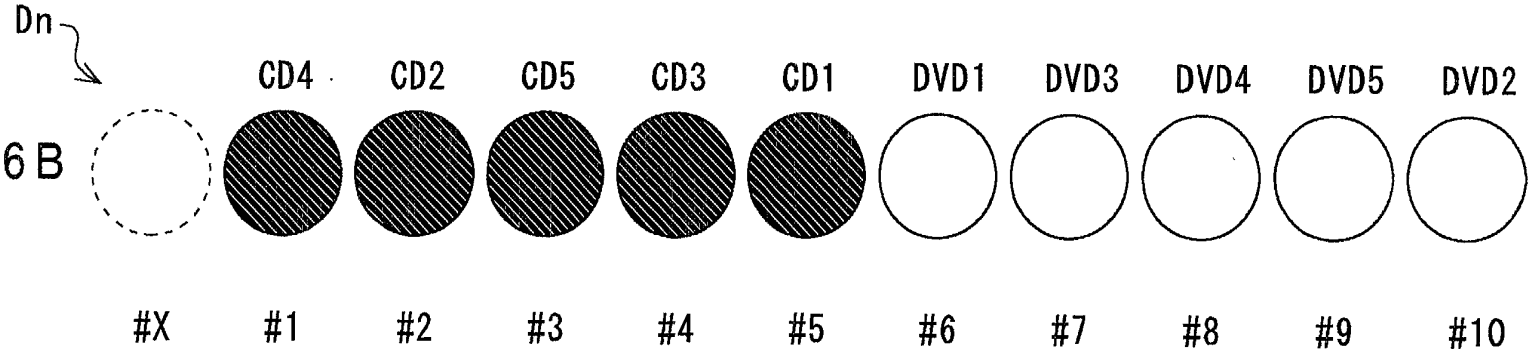
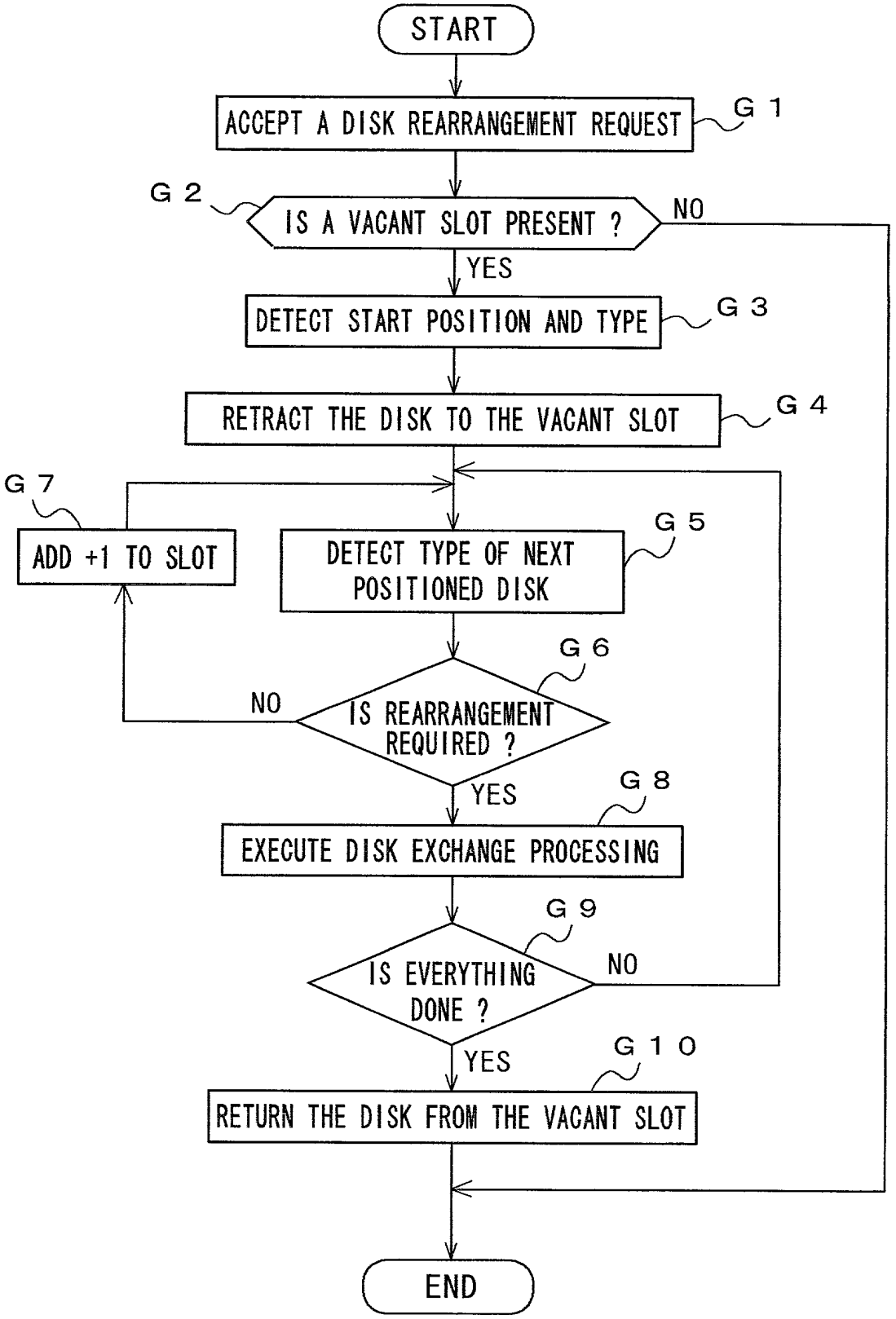


FIG. 16B

FIG. 17


START
ACCEPT A DISK REARRANGEMENT REQUEST
G 1
G 2
IS A VACANT SLOT PRESENT ?
NO
YES
DETECT START POSITION AND TYPE
G 3
RETRACT THE DISK TO THE VACANT SLOT
G 4
G 7
ADD +1 TO SLOT
DETECT TYPE OF NEXT POSITIONED DISK
G 5
G 6
NO
IS REARRANGEMENT REQUIRED ?
YES
G 8
EXECUTE DISK EXCHANGE PROCESSING
G 9
IS EVERYTHING DONE ?
NO
YES
G 10
RETURN THE DISK FROM THE VACANT SLOT
END